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NEWS 6 AUG 30 CASREACT - Enhanced with displayable reaction conditions

NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY

NEWS 8 SEP 22 MATHDI to be removed from STN

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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FILE 'HOME' ENTERED AT 08:23:01 ON 29 SEP 2005

=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 08:23:11 ON 29 SEP 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 SEP 2005 HIGHEST RN 864132-17-2

DICTIONARY FILE UPDATES: 28 SEP 2005 HIGHEST RN 864132-17-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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\*\*\*\*\*\*\*\*\*\*\*\*

 $^\star$  The CA roles and document type information have been removed from  $^\star$ \* the IDE default display format and the ED field has been added, \* effective March 20, 2005. A new display format, IDERL, is now available and contains the CA role and document type information.

\*\*\*\*\*\*\*\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

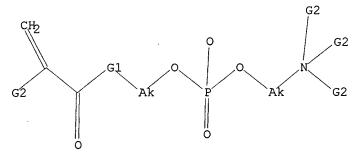
· => Uploading C:\Program Files\Stnexp\Queries\phospho.str

STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 O, NH

G2 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 11 sam

SAMPLE SEARCH INITIATED 08:23:36 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -610 TO ITERATE

100.0% PROCESSED

610 ITERATIONS

27 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\* BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

10719 TO 13681 L2 27 SEA SSS SAM L1

=> d scan

L2 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with butyl 2-methyl-2-propenoate, block (9CI)

MF (C11 H22 N O6 P . C8 H14 O2)x

CI PMS, COM

CM 1

CM 2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{n-BuO-C-C-Me} \end{array}$$

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> s l1 full FULL SEARCH INITIATED 08:24:45 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 12800 TO ITERATE

100.0% PROCESSED 12800 ITERATIONS SEARCH TIME: 00.00.01

598 ANSWERS

L3 598 SEA SSS FUL L1

=> file caplus COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
162.19 162.40

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 08:24:52 ON 29 SEP 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

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```
strictly prohibited.
FILE COVERS 1907 - 29 Sep 2005 VOL 143 ISS 14
FILE LAST UPDATED: 28 Sep 2005
                                (20050928/ED)
New CAS Information Use Policies, enter HELP USAGETERMS for details.
  This file contains CAS Registry Numbers for easy and accurate
  substance identification.
=> s 13
           728 L3
L4
=> s immuno? or agglutination
       743867 IMMUNO?
         53176 IG
         14228 IGS
         60266 IG
                 (IG OR IGS)
        760705 IMMUNO?
                 (IMMUNO? OR IG)
         13710 AGGLUTINATION
           134 AGGLUTINATIONS
         13761 AGGLUTINATION
                 (AGGLUTINATION OR AGGLUTINATIONS)
        769725 IMMUNO? OR AGGLUTINATION
L5
=> s acrylate
        173035 ACRYLATE
         34045 ACRYLATES
L6
        182214 ACRYLATE
                 (ACRYLATE OR ACRYLATES)
=> s ?acrylate
        345497 ?ACRYLATE
=> s 17 and 14
          471 L7 AND L4
=> s 18 (1) 15
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L8 (L) L5'
           30 L8 (L) L5
=> s 14 (1) 15
            14 L4 (L) L5
=> s 110 and 17
             9 L10 AND L7
=> d scan
      9 ANSWERS
                CAPLUS COPYRIGHT 2005 ACS on STN
L11
     ICM G01N033-531
IC
     ICS G01N033-543
     9-15 (Biochemical Methods)
CC
     Protein adsorption-preventing polymers or copolymers
TI
     methacryloyloxyethylphosphorylcholine polymer copolymer protein adsorption
ST
     prevention
ΙT
     Immunoassay
        (methacryloyloxyethyl phosphorylcholine polymer or copolymer for
        preventing protein adsorption in two-site anal. method or immunoassay)
```

Antigens

ΙT

```
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical
     study); BIOL (Biological study)
        (CEA (carcinoembryonic antigen), methacryloyloxyethyl phosphorylcholine
        polymer or copolymer for preventing protein adsorption in two-site
        anal. method or immunoassay)
TΤ
     Immunoglobulins
     RL: ARU (Analytical role, unclassified); MOA (Modifier or additive use);
     SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation);
     USES (Uses)
        (G, anti-carcinoembryonic antigen; methacryloyloxyethyl
        phosphorylcholine polymer or copolymer for preventing protein
        adsorption in two-site anal. method or immunoassay)
ΤТ
     Polymers, analysis
     RL: ARU (Analytical role, unclassified); MOA (Modifier or additive use);
     SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation);
     USES (Uses)
        (co-, methacryloyloxyethyl phosphorylcholine containing;
        methacryloyloxyethyl phosphorylcholine polymer or copolymer for
        preventing protein adsorption in two-site anal. method or immunoassay)
IT
     67881-98-5DP, 2-Methacryloyloxyethyl phosphorylcholine, polymers
     or copolymers 67881-99-6P 67882-00-2P
     125275-25-4P 134483-35-5P 148569-41-9P
     RL: ARU (Analytical role, unclassified); MOA (Modifier or additive use);
     SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation);
     USES (Uses)
        (methacryloyloxyethyl phosphorylcholine polymer or copolymer for
        preventing protein adsorption in two-site anal. method or
        immunoassay)
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end
=> d his
     (FILE 'HOME' ENTERED AT 08:23:01 ON 29 SEP 2005)
     FILE 'REGISTRY' ENTERED AT 08:23:11 ON 29 SEP 2005
T.1
                STRUCTURE UPLOADED
L<sub>2</sub>
             27 S L1 SAM
L3
            598 S L1 FULL
     FILE 'CAPLUS' ENTERED AT 08:24:52 ON 29 SEP 2005
L4
            728 S L3
L5
         769725 S IMMUNO? OR AGGLUTINATION
L6
         182214 S ACRYLATE
         345497 S ?ACRYLATE
L7
rs
            471 S L7 AND L4
L9
             30 S L8 (L) L5
             14 S L4 (L) L5
L10
              9 S L10 AND L7
L11
=> s 111 not py>2003
       2001315 PY>2003
             4 L11 NOT PY>2003
L12
=> d ibib 1-4
L12 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
                         2003:945791 CAPLUS
                         140:14529
DOCUMENT NUMBER:
TITLE:
                         Developing solvent, measuring method, and kit for
                         immunochromatography
                         Mochizuki, Takeshi; Komatsu, Mariko; Sakaki, Shujiro
INVENTOR(S):
                         Taunzu K. K., Japan; NOF Corporation
PATENT ASSIGNEE(S):
```

SOURCE:

Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003344406	A2	20031203	JP 2002-150996	20020524
PRIORITY APPLN. INFO.:			JP 2002-150996	20020524

L12 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:172237 CAPLUS

DOCUMENT NUMBER:

136:213193

TITLE:

Highly reproducible agglutination immunoassay method

and reagent

INVENTOR(S):

Shigenobu, Kayoko; Shuto, Kenshiro; Sakaki, Shujiro

Kyowa Medex Co., ltd, Japan; Nof Corporation

SOURCE:

PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATENT NO.	KIND DATE	APPLICATION NO.	DATE		
WO 2002018953	A1 20020307	WO 2001-JP7385	20010828		
		BA, BB, BG, BR, BY, I			
CO, CR, CU,	CZ, DE, DK, DM,	DZ, EC, EE, ES, FI, G	GB, GD, GE, GH,		
GM, HR, HU,	ID, IL, IN, IS,	JP, KE, KG, KP, KR, I	KZ, LC, LK, LR,		
LS, LT, LU,	LV, MA, MD, MG,	MK, MN, MW, MX, MZ, I	NO, NZ, PH, PL,		
PT, RO, RU,	SD, SE, SG, SI,	SK, SL, TJ, TM, TR,	TT, TZ, UA, UG,		
US, UZ, VN,	YU, ZA, ZW, AM,	AZ, BY, KG, KZ, MD, I	RU, TJ, TM		
RW: GH, GM, KE,	LS, MW, MZ, SD,	SL, SZ, TZ, UG, ZW, A	AT, BE, CH, CY,		
DE, DK, ES,	FI, FR, GB, GR,	IE, IT, LU, MC, NL,	PT, SE, TR, BF,		
		GQ, GW, ML, MR, NE,			
CA 2420770 AA 20020307 CA 2001-2420770 20010828					
		AU 2001-80210			
EP 1314982	A1 20030528	EP 2001-958575	20010828		
R: AT, BE, CH,	DE, DK, ES, FR,	GB, GR, IT, LI, LU, 1	NL, SE, MC, PT,		
IE, SI, LT,	LV, FI, RO, MK,	CY, AL, TR			
US 2003166302	A1 20030904	US 2003-363038	20030228		
PRIORITY APPLN. INFO.:		JP 2000-259964	A 20000829		
		WO 2001-JP7385	W 20010828		
REFERENCE COUNT:	3 THERE ARE	3 CITED REFERENCES A	VAILABLE FOR THIS		
	RECORD. A	LL CITATIONS AVAILABL	E IN THE RE FORMAT		

L12 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2000:215700 CAPLUS

DOCUMENT NUMBER:

132:262394

TITLE:

Polymer/enzyme-conjugate and polymer/enzyme/antibody-

conjugate for enzyme immunoassay

INVENTOR(S):

Sakaki, Shujiro; Yamada, Satoru; Shudo, Kenshiro;

Nakabayashi, Nobuo; Ishihara, Kazuhiko Nippon Oil and Fats Co., Ltd., Japan

PATENT ASSIGNEE(S): SOURCE:

Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. KIND DATE DATE PATENT NO. \_\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_ \_\_\_\_\_ 20000404 JP 1998-274782 19980929 JP 2000093169 A2 JP 1998-274782 19980929 PRIORITY APPLN. INFO.:

L12 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1995:606836 CAPLUS

DOCUMENT NUMBER:

INVENTOR(S):

123:5146

TITLE:

SOURCE:

Protein adsorption-preventing polymers or copolymers Sakaki, Hidejiro; Nakada, Shinji; Matsumoto, Takeo; Koinuma, Yasuyoshi; Nakabayashi, Norio; Ishihara,

Kazuhiko

PATENT ASSIGNEE(S):

Nippon Oils & Fats Co Ltd, Japan Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07083923	A2	19950331	JP 1993-228973	19930914
JP 3443891	В2	20030908		
PRIORITY APPLN. INFO.:			JP 1993-228973	19930914

## => d ibib abs hitstr total

L12 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2003:945791 CAPLUS

DOCUMENT NUMBER:

140:14529

TITLE:

Developing solvent, measuring method, and kit for

immunochromatography

INVENTOR(S):

Mochizuki, Takeshi; Komatsu, Mariko; Sakaki, Shujiro

PATENT ASSIGNEE(S):

Taunzu K. K., Japan; NOF Corporation

SOURCE:

Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	<del>-</del>			
JP 2003344406	A2	20031203	JP 2002-150996	20020524
PRIORITY APPLN. INFO.:			JP 2002-150996	20020524
AR An improved develop	ina so	lvent for an	immunochromatog.	is provided, wit

An improved developing solvent for an immunochromatog. is provided, with which non-specific aggregation and non-specific reaction upon measurements are prevented, and the measurements are performed with high accuracy. The developing solvent for an immunochromatog. is characterized in that it comprises a buffer containing a polymer possessing phosphorylcholine groups. It is preferable that the polymer is contained in the concentration of 0.005-0.3w/v%, and its number average mol. weight is higher than 40,000. The polymer preferably contains 2-methacryloyloxyethylphosphorylcholine as the constituting monomer, and it can be either a homopolymer or a copolymer.

IT 67881-98-5D, 2-Methacryloyloxyethylphosphorylcholine, copolymer with methoxypolyethyleneglycolmonomethacrylate, copolymer with methacrylate

RL: ARU (Analytical role, unclassified); ANST (Analytical study) (improved developing solvent, measuring method, and kit for immunochromatog.)

RN 67881-98-5 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)

IT 67881-98-5, 2-Methacryloyloxyethylphosphorylcholine 150120-15-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(improved developing solvent, measuring method, and kit for

immunochromatog.)

RN 67881-98-5 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)

RN 150120-15-3 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N-trimethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)

L12 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

PATENT ASSIGNEE(S):

2002:172237 CAPLUS

DOCUMENT NUMBER:

136:213193

TITLE:

Highly reproducible agglutination immunoassay method

and reagent

INVENTOR(S):

Shigenobu, Kayoko; Shuto, Kenshiro; Sakaki, Shujiro

Kyowa Medex Co., ltd, Japan; Nof Corporation

SOURCE:

PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2002018953 A1 20020307 WO 2001-JP7385 20010828

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,

PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG CA 2001-2420770 20010828 CA 2420770 AA20020307 AU 2001-80210 20020313 20010828 AU 2001080210 Α5 EP 2001-958575 20010828 EP 1314982 A1 20030528 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR 20030904 US 2003166302 A1 US 2003-363038 20030228 JP 2000-259964 A 20000829 PRIORITY APPLN. INFO.: WO 2001-JP7385 W 20010828

A highly reproducible agglutination immunoassay method is provided, in which the agglutination of insol. carrier particles (e.g., latex) takes place in a stable and homogeneous way. An immunoassay reagent used for this method is also provided. In this agglutination immunoassay method, an antigenic substance in a test sample is bound to the insol. carrier particles substantially not carrying any bound-antigen or -antibody, and then, an antibody or an antibody complex capable of specifically reacting with the antigenic substance is bound to the particles to selectively give rise to the agglutination. The reagent contains a polymer which is prepared either by homogeneously polymerizing a monomer possessing a phosphorylcholine group and a vinyl group (e.g., 2-methacyroyloxyethylphosphorylcholine), or co-polymerizing the monomer possessing a phosphorylcholine group and a vinyl group, and another monomer possessing a vinyl group (e.g., n-butylmetharylate). An improved reproducibility was obtained when the HbAlc concentration in blood samples were determined with this reagent using anti-HbA1c monoclonal antibody in comparison to the conventional reagents.

67881-98-5, 2-Methacryloyloxyethylphosphorylcholine RL: RCT (Reactant); RACT (Reactant or reagent)

(highly reproducible agglutination immunoassay

method and reagent)

RN 67881-98-5 CAPLUS

IT

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:215700 CAPLUS

DOCUMENT NUMBER: 132:262394

TITLE: Polymer/enzyme-conjugate and polymer/enzyme/antibody-

conjugate for enzyme immunoassay

INVENTOR(S): Sakaki, Shujiro; Yamada, Satoru; Shudo, Kenshiro;

Nakabayashi, Nobuo; Ishihara, Kazuhiko Nippon Oil and Fats Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000093169 PRIORITY APPLN. INFO.:	A2	20000404	JP 1998-274782 JP 1998-274782	19980929 19980929

$$-0 - \Pr_{P-O-(CH_2)_{n}-N}^{O} + \frac{R^1}{R^2}$$

Polymer/enzyme-conjugate and polymer/enzyme/substance with biol. specific AB binding ability-conjugate are provided for the use in a highly sensitive enzyme immunoassay. This polymer/enzyme-conjugate is prepared by chemical binding an enzyme for immunol. measurement (e.g., peroxidase) with a polymer synthesized by polymerizing the monomer constituent containing a hydrophilic monomer possessing a phosphorylcholin-analog group (e.g., 2-methacryloyloxyethylphosphorylcholine (MPC)(I)) and a monomer possessing a chemical reative group (e.g., methacrylate, 2-aminoethyl(meth) acrylate). The substance with biol. specific binding ability used for the conjugate is either antibody, biotin, avidin, or antigen. Various samples of polymer/horse radish peroxidase/biotin or IgG-conjugate prepared by this method exhibited an excellent solubility and 1.8-36 times higher sensitivity than the cases where no polymer was used to make conjugates. 67881-98-5, 2-Methacryloyloxyethylphosphorylcholine ΙT

RL: RCT (Reactant); RACT (Reactant or reagent) (polymer/enzyme-conjugate and polymer/enzyme/antibody-conjugate for enzyme immunoassay)

RN67881-98-5 CAPLUS

3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-CN tetramethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)

L12 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

1995:606836 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

123:5146

TITLE:

Protein adsorption-preventing polymers or copolymers Sakaki, Hidejiro; Nakada, Shinji; Matsumoto, Takeo; Koinuma, Yasuyoshi; Nakabayashi, Norio; Ishihara,

Kazuhiko

PATENT ASSIGNEE(S):

Nippon Oils & Fats Co Ltd, Japan Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

INVENTOR(S):

Patent Japanese

LANGUAGE:

SOURCE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				<b>-</b>
JP 07083923	A2	19950331	JP 1993-228973	19930914
JP 3443891	В2	20030908		

2-Methacryloyloxyethyl phosphorylcholin polymer and copolymer containing 2-methacryloyloxyethyl phosphorylcholine are used for preventing protein adsorption. The (co)polymers are useful for increasing the reproductivity and accuracy of two-site method, e.g. antigen or antibody sandwich immunoassay, for biochem. or clin. diagnosis. In example, poly-2-methacryloyloxyethyl phosphorylcholine, and 2-methacryloyloxyethyl phosphorylcholine copolymd. with Bu methacrylate, Me methacrylate, 2-hydroxyethyl methacrylate, or styrene were prepared The prepared polymer or copolymers were used for preventing adsorption of FITC-labeled mouse anti-human carcinoembryonic antigen IgG during immunoassay.

67881-98-5DP, 2-Methacryloyloxyethyl phosphorylcholine, polymers or copolymers 67881-99-6P 67882-00-2P 125275-25-4P 134483-35-5P 148569-41-9P

RL: ARU (Analytical role, unclassified); MOA (Modifier or additive use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(methacryloyloxyethyl phosphorylcholine polymer or copolymer for preventing protein adsorption in two-site anal. method or immunoassay)

RN 67881-98-5 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)

RN 67881-99-6 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5 CMF C11 H22 N O6 P

RN 67882-00-2 CAPLUS

CN Ethanaminium, 2-[[hydroxy[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]phosphinyl]oxy]-N,N,N-trimethyl-, inner salt, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5 CMF C11 H22 N O6 P

CM 2

CRN 80-62-6 CMF C5 H8 O2

$$\begin{array}{c|c} \text{H}_2\text{C} & \text{O} \\ \parallel & \parallel \\ \text{Me-} & \text{C-} & \text{C-} & \text{OMe} \end{array}$$

RN 125275-25-4 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with butyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5 CMF C11 H22 N O6 P

CM 2

CRN 97-88-1 CMF C8 H14 O2

$$\begin{array}{c|c} & \text{O} & \text{CH}_2 \\ & \parallel & \parallel \\ \text{n-BuO-C-C-Me} \end{array}$$

RN 134483-35-5 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5 CMF C11 H22 N O6 P

CM 2

CRN 100-42-5 CMF C8 H8

 $H_2C = CH - Ph$ 

RN 148569-41-9 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5 CMF C11 H22 N O6 P

CM 2

CRN 868-77-9 CMF C6 H10 O3